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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/782,807	WRIGHT ET AL.	:
Office Action Summary	Examiner	Art Unit	
•	Anthony T Ton	2661	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with t	ne correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply ly within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).	£
Status			
1) Responsive to communication(s) filed on 18 M	arch 2004.		
•	action is non-final.		
3) Since this application is in condition for alloward closed in accordance with the practice under E			:
Disposition of Claims		•	
4) ⊠ Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-12 and 15-28 is/are rejected. 7) ⊠ Claim(s) 13 and 14 is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.		:
Application Papers			
9)☐ The specification is objected to by the Examine	er		
10) The drawing(s) filed on 14 February 2001 is/ard		ected to by the Examiner.	
Applicant may not request that any objection to the			:
Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) i	s objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
1. Certified copies of the priority document	s have been received.		
2. Certified copies of the priority document	s have been received in Appl	cation No	
 3. Copies of the certified copies of the prio application from the International Bureau 	_ ·	eived in this National Stage	
* See the attached detailed Office action for a list	of the certified copies not rec	eived.	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mary (PTO-413) ail Date	
Notice of Dransperson's Patent Drawing Review (F10-946) Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08)	5) Notice of Information	nal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) Other:		

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DETAILED ACTION

Claim Objections

1. Claim 28 is objected to because of the following informalities:

Term "data field.." in line 3 is improper since there are two periods at the end of word field. Examiner suggests changing this term to "data field.".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claim 7 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In Regarding to Claim 7: Claimed subject matter of a step of the method "and sending the remnant packet" in line 4 is not adequately disclosed in the specification. Herein, this claim claimed "the method of claim 1, further comprising: when the address field of the original data packet includes sufficient available space for subsequent routing of the original data packet in an intermediate network, sending the original data packet without constructing and sending the remnant packet." However, the specification does not support for a step of method for sending both the original data packet without constructing and the remnant packet. The specification ONLY supports for sending the original data packet without constructing, but it

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does not support both: "sending the original data packet without constructing and sending the remnant packet".

4. The following is a quotation of the **second paragraph** of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

5. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4 recites the limitations "the first data information" in line 3. There are insufficient antecedent basis for these limitations in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 7. The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

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reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 8. Claims 1, 8, 17, 19 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Woodward et al. (US Patent No. 6,151,318), hereinafter referred to as Woodward.
- a) In Regarding to Claim 1: Woodward disclosed a method for sending a data packet, the method comprising:

receiving an original data packet characterized by a fixed-length packet format defining an address field and a data field, the original data packet carrying original data packet routing information in the address field and original data packet data information in the data field (see step 610 in Fig.6; wherein an ATM cell has a header field and a payload field, hence address field and data field);

constructing a remnant packet characterized by the fixed-length packet format including a remnant packet data field and a remnant packet address field (see steps 620 and 650 in Fig.6; see Fig.1: 30 (remnant packet), blocks 32 and 34 (address field), and block 36 (data field); col.2 line 52-col.3 line 6: Data packet 30, in a preferred embodiment, payload 36 is exactly 106 bytes long (hence, it is inherently the packet of Woodward can be fixed-length packet)) by inserting at least a portion of the original packet routing information in the remnant packet data field (see Fig.2: according to this figure, it shows a portion of header 122 of the ATM cell 120 (the original fixed-length packet) has been inserted into the payload 146 (data field) of the packet 140 (remnant packet)); and

sending the remnant packet (see Fig. 4: 450).

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b) In Regarding to Claim 8: Woodward further disclosed the method of claim 1, further comprising setting a remnant packet flag in the remnant packet (see col.5 lines12-15).

c) In Regarding to Claim 17: Woodward disclosed a communication network node comprising:

a receiver for receiving an original data packet characterized by a fixed-length packet format defining an original address field and an original data field (see Fig. 4: block 410); and

a processor coupled to said receiver and operable to construct a remnant packet according to the fixed-length packet format including a remnant address field and a remnant data field, by moving at least a portion of the original address field into the remnant data field (see Fig.4:block 438 and col.6 line 42-col.7 line 59; and see Fig.2: a portion of header 122 of ATM cell 120 has been moved to the payload 146 of the packet 140).

- d) In Regarding to Claim 19: Woodward further disclosed the communication network node of claim 17, wherein the remnant data field comprises at least a portion of a prior original data packet (see Fig.1: packet 30 (remnant packet) and packet 20 (a prior original packet).
- e) In Regarding to Claim 22: Woodward further disclosed the communication network node of claim 17, wherein the remnant packet comprises a remnant packet flag (see col.5 lines12-15).

Claim Rejections - 35 USC § 103

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 10. Claim 6, 9, 16, 23-26 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woodward (US Patent No. 6,151,318).
- a) In Regarding to Claim 6: Woodward disclosed all aspects of this claim as set forth in the claim 1, and Woodward further disclosed the method, wherein: receiving an original data packet comprises receiving an original ATM cell including a VCI (see Fig. 6 step 610: ATM cells, hence including VCI)

Woodward failed to explicitly disclose constructing a remnant packet further comprises inserting the VCI from the original ATM cell in the data field of the remnant packet. However, accordingly in Fig.2, there is a portion of header 122 of the ATM packet 120 (the original ATM packet) is inserted in the data field of the packet 140 (remnant packet); it is possible that this inserted portion can be a VCI because the VCI a component of an ATM header.

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such inserting the VCI from the original ATM cell in the data field of the remnant packet teaching in the instant claim with Woodward, in order to identify one of logical connections multiplexed on one logical path that is communicated between switching stations. The motivation for doing so would have been to route data information through a communications network more efficient and reliable. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

b) In Regarding to Claim 9: Woodward disclosed a method for receiving a data packet comprising:

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receiving a current remnant packet characterized by a fixed-length packet format defining an address field and a data field (see step 610 in Fig.6), the current remnant packet carrying remnant routing information in the address field and remnant data information in the data field (see step 610 in Fig.6, Receive a First ATM cell (a current remnant packet); wherein an ATM cell has a header field and a payload field, hence, the remnant routing information in the address field and remnant data information in the data field); and

building a reconstructed data packet characterized by the fixed-length packet format by: identifying original data packet routing information contained in the data field of the current remnant packet (see Fig. 2: a portion of header 122 of packet 120 (reconstructed data packet) is extracted from the payload 146 (the current remnant data field) of the packet 140 (remnant packet); note that a reconstructed data packet is considered as an encapsulated data packet that has been decapsulated); and

Woodward failed to explicitly disclose inserting the original data packet routing information in the address field of the reconstructed data packet. However, Woodward clearly disclosed encapsulating for packets as shown in Fig.2, wherein a portion of header 122 of packet 120 (the original data packet) was inserted into the payload 146 (the current remnant data field) of the packet 140 (remnant packet) and this original data packet routing information of the original data packet 120 was encapsulated with other portions of other original packets 100 and 120 in the packet 140. Therefore, it is inherently Woodward disclosed the instant subject matter of this claim because at a receiver of a destination node, when it receives this encapsulated packet, this packet should be decapsulated, thus, the original data packet routing information should be inserted back into the address field of a reconstructed data packet, wherein

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the reconstructed data packet is considered as an decapsulated packet at the receiver of the destination node for getting an appropriate original packet sent from a source node.

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such inserting the original data packet routing information in the address field of the reconstructed data packet teaching in the instant claim with Woodward, in order to appropriate packets to a destination node in a communications network. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

c) In Regarding to Claim 16: Woodward disclosed all aspects of this claim as set forth in the claim 9, and Woodward further disclosed the method, wherein:

receiving a remnant packet comprises receiving a remnant ATM cell (see step 610 in Fig. 6); and

constructing a reconstructed data packet comprises:

constructing a reconstructed ATM cell (see packet 120 in Fig.2).

Woodward failed to explicitly disclose retrieving a VCI from the data field of the remnant ATM cell; and inserting the VCI in the VCI field of the reconstructed ATM cell.

However, accordingly in the claimed subject matters of Claim 6 as described above, the claimed subject matters for retrieving a VCI from the data field of the remnant ATM cell; and inserting the VCI in the VCI field of the reconstructed ATM cell are the inverse steps of as described in claim 6, and such inverse steps using for decapsulating ATM packets (constructed packets) from an ATM encapsulated packet (remnant packet).

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At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such retrieving a VCI from the data field of the remnant ATM cell; and inserting the VCI in the VCI field of the reconstructed ATM cell teaching in the instant claim with Woodward, in order to provide appropriate packets to a destination node in a communications network. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

d) In Regarding to Claim 23: Woodward disclosed a communication network node comprising:

a receiver for receiving a remnant packet characterized by a fixed-length packet format defining a remnant address field and a remnant data field, the remnant address field comprising remnant packet routing information (see Fig. 4 block 410: ATM cell receiver; see Fig.1: packet 30 (remnant packet)) and the remnant data field comprising original data packet routing information and original data packet data information (see Fig.1: payload 36 (the remnant data field) of packet 30 (remnant packet) having both ATM header 12 and ATM payload 14 of the original packet 10); and

a processor (see Fig.4: block 438 (processor) operable to form a reconstructed data packet characterized by the fixed-length packet format including a reconstructed address field and a reconstructed data field.

Woodward failed to explicitly disclose a reconstructed data packet characterized by the fixed-length packet format including a reconstructed address field and a reconstructed data field,

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the reconstructed address field comprising original packet routing information from the remnant data field.

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However, Woodward inherently disclosed such a reconstructed data packet characterized by the fixed-length packet format including a reconstructed address field and a reconstructed data field because it is shown in Fig.3 that packet 200 (considered as a reconstructed packet when a remnant packet is decapsulated to its original packets; it means that the packet 240 is reconstructed back to the packets 200 and 210 – the reverse steps of original packets to a remnant packet), header 202 (reconstructed address field) and payload 204 (reconstructed data field)), and the reconstructed address field comprising original packet routing information from the remnant data field (see Fig.1: wherein the header 12 of the original packet 10 should be inserted to the payload 36 (remnant data field) of the packet 30 (remnant packet).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such a reconstructed data packet characterized by the fixed-length packet format including a reconstructed address field and a reconstructed data field, the reconstructed address field comprising original packet routing information from the remnant data field teaching in the instant claim with Woodward, in order to provide appropriate packets to a destination node in a communications network. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

f) In Regarding to Claim 24: Woodward further disclosed the communication network node of claim 23, wherein the reconstructed data field comprises at least a portion of the

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original data packet data information (see Fig.2: 204 and 246; it is inherently as described in claim 23, wherein the data routing information and data information from the payload 246 are moved back to its original packets).

- g) In Regarding to Claim 25: Woodward further disclosed communication network node of claim 23, wherein the processor is further operable to insert stored data information from a prior associated remnant packet in the reconstructed data field (see Fig.1: packet 20 (a prior original packet) and packet 10 (the original packet); wherein the payload 24 (at least a portion of data field) of the prior original packet 20 has been inserted (stored) in the payload 36 of the packet 30 (the reconstructed packet)).
- h) In Regarding to Claim 26: Woodward further disclosed the communication network node of claim 23, wherein said receiver receives a subsequent remnant packet including a subsequent data field (see packet 150 in Fig.2), and said processor forms a subsequent reconstructed data packet according to the fixed-length packet format (see Fig.2 packet 120), including a subsequent reconstructed data field (see Fig.2 payload 124) comprising original data packet data information from the remnant packet (see Fig.1: wherein payload 14 of packet 10 (original packet) was inserted to packet 30 (remnant packet)

Woodward failed to explicitly disclose a subsequent reconstructed data field comprising at least a portion of the subsequent data field.

However, Woodward inherently disclosed such a subsequent reconstructed data field comprising at least a portion of the subsequent data field because it is as shown in Fig.1: wherein the payload 24 of the original subsequent packet was inserted to the payload 36 of packet 30 (remnant packet). Thus, it is inherently Woodward disclosed this subject matter of the instant

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claim because when a remnant packet is decapsulated to be a reconstructed packet is one of inverse steps of constructing the remnant packet, hence, the subsequent reconstructed data field comprising at least a portion of the subsequent data field.

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such a subsequent reconstructed data field comprising at least a portion of the subsequent data field teaching in the instant claim with Woodward, in order to provide appropriate packets to a destination node in a communications network. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

i) In Regarding to Claim 28: Woodward disclosed all aspects of this claim as set forth in the claim 23.

Woodward failed to explicitly disclose wherein said remnant packet is an ATM cell, and said reconstructed data packet is an ATM cell comprising a VCI field including VCI information from the remnant data field. However, these claimed subject matters are the same as that in the claim 16 above. Therefore, the rejection in claim 16 would be applied to the rejection in this claim.

11. Claims 2-5, 10-12 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woodward (US Patent No. 6,151,318) in view of Braff et al. (US Patent No. 5,166,930), hereinafter referred to as Braff.

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a) In Regarding to Claim 2: Woodward disclosed all aspects of this claim as set forth in the claim 1:

Woodward failed to explicitly disclose wherein constructing a first remnant packet further comprises: inserting a first portion of the original data packet data information in the remnant packet data field.

Braff disclosed such inserting a first portion of the original data packet data information in the remnant packet data field (see Fig. 3: wherein the first portion of data information of the message 305 is inserted to the payload 303 of the TS1 (wherein the TS1 consisting of the header 302, payload 303 and the trailer 304; therefore, it is considered as a remnant packet) before transmission).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such inserting a first portion of the original data packet data information in the remnant packet data field, as taught by Braff with Woodward, in a purpose of identifying appropriate information in encapsulated packets. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine Braff and Woodward the invention as specified in this claim.

b) In Regarding to Claim 3: Woodward further disclosed the method of claim 2, further comprising:

when the original data packet and a prior original data packet form part of a common message, inserting at least a portion of a prior original data packet data field in the remnant packet data field (see Fig. 1: packets 20 (a prior original packet) and packet 10 (the original

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packet); wherein the payload 24 (at least a portion of data field) of the prior original packet 20 has been inserted into the payload 36 of the packet 30 (the remnant packet)).

c) In Regarding to Claim 4: Woodward disclosed all aspects of this claim as set forth in the claim 1:

Woodward failed to explicitly disclose the method further comprising constructing a subsequent remnant packet characterized by the fixed-length packet format by inserting a second portion of first data information in the data field of the subsequent remnant packet.

Braff disclosed such constructing a subsequent remnant packet characterized by the fixed-length packet format by inserting a second portion of first data information in the data field of the subsequent remnant packet (see Fig.3: wherein TS2 (considered as a subsequent remnant packet) contains a second portion of first data information in the payload of the TS2).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such a subsequent remnant packet characterized by the fixed-length packet format by inserting a second portion of first data information in the data field of the subsequent remnant packet, as taught by Braff with Woodward, in a purpose of identifying appropriate information in encapsulated packets. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine Braff and Woodward the invention as specified in this claim.

d) In Regarding to Claim 5: Woodward further disclosed the method of claim 4, further comprising:

receiving a subsequent original data packet characterized by the fixed-length packet format, the subsequent original data packet carrying subsequent original data packet routing

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information in the address field (see Fig. 6 step 610; and Fig. 2: packet 120 (subsequent original data packet)); and

inserting at least a portion of the subsequent original packet routing information in the data field of the subsequent remnant packet (see Fig.2: wherein a portion of header 122 of the packet 120 was inserted into the packet 150 (the subsequent remnant packet).

e) In Regarding to Claim 10: Woodward disclosed all aspects of this claim as set forth in the claim 9, and Woodward further disclosed identifying original data packet data information contained in the data field of the current remnant packet (see Fig.2: a portion of header 122 of packet 120 (reconstructed data packet) is extracted from the payload 146 (the current remnant data field) of the packet 140 (remnant packet); note that a reconstructed data packet is considered as an encapsulated data packet that has been decapsulated).

Woodward failed to explicitly disclose wherein building a reconstructed data packet further comprising inserting at least a first portion of the original data packet data information in the data field of the reconstructed data packet.

Braff disclosed such inserting at least a first portion of the original data packet data information in the data field of the reconstructed data packet (see Fig. 3: wherein the first portion of data information of the message 305 is inserted to the payload 303 of the TS1 (wherein the TS1 consisting of the header 302, payload 303 and the trailer 304; therefore, it is considered as a reconstructed packet)).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such inserting at least a first portion of the original data packet data information in the data field of the reconstructed data packet, as taught by Braff with Woodward, in a purpose of

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identifying appropriate information in encapsulated packets. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks.

Therefore, it would have been obvious to combine Braff and Woodward the invention as specified in this claim.

- f) In Regarding to Claim 11: Woodward further disclosed the method of claim 10, further comprising storing at least a portion of original data packet data information from a prior remnant packet in the data field of the reconstructed data packet (see Fig.1: packet 20 (a prior original packet) and packet 10 (the original packet); wherein the payload 24 (at least a portion of data field) of the prior original packet 20 has been inserted (stored) in the payload 36 of the packet 30 (the reconstructed packet)).
- g) In Regarding to Claim 12: Woodward further disclosed the method of claim 9, wherein building a reconstructed data packet further comprises: when the current remnant packet and a prior remnant packet form part of a common message (see Fig. 2: packet 100 (current remnant packet) and packet 110 (a prior remnant packet) and packet 140 (a common message)).

Woodward failed to explicitly disclose storing at least a portion of prior remnant packet data information in the data field of the reconstructed data packet.

Braff disclosed such storing at least a portion of prior remnant packet data information in the data field of the reconstructed data packet (see col.1 line 67 – col.1 line 3).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such storing at least a portion of prior remnant packet data information in the data field of the reconstructed data packet, as taught by Braff with Woodward, in a purpose of receiving and forwarding packets throughout an ATM network. The motivation for doing so would have

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been to provide enhanced services of Woodward in both ATM and broadband networks.

Therefore, it would have been obvious to combine Braff and Woodward the invention as specified in this claim.

h) In Regarding to Claim 18: Woodward disclosed all aspects of this claim as set forth in the claim 17, and Woodward further disclosed a memory coupled to the processor for storing a second portion of the original data field (see Fig. 4 buffer 434).

Woodward failed to explicitly disclose wherein the remnant data field further includes a first portion of the original data field.

Braff disclosed such remnant data field further includes a first portion of the original data field (see Fig. 3: wherein the first portion of data information of the message 305 is inserted to the payload 303 of the TS1 (wherein the TS1 consisting of the header 302, payload 303 and the trailer 304; therefore, it is considered as a reconstructed packet)).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such remnant data field further includes a first portion of the original data field, as taught by Braff with Woodward, in a purpose of identifying appropriate information in encapsulated packets. The motivation for doing so would have been to provide enhanced services of Woodward in both ATM and broadband networks. Therefore, it would have been obvious to combine Braff and Woodward the invention as specified in this claim.

12. Claims 7, 15, 20, 21 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Woodward (US Patent No. 6,151,318) in view of Opalka et al. (US Patent No. 6,259,699), hereinafter referred to as Opalka.

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a) In Regarding to Claim 7: Woodward disclosed all aspects of this claim as set forth in the claim 1, except for when the address field of the original data packet includes sufficient available space for subsequent routing in an intermediate network, sending the original data packet without constructing.

Opalka disclosed when the address field of the original data packet includes sufficient available space for subsequent routing in an intermediate network, sending the original data packet without constructing (see abstract and Fig. 4).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such when the address field of the original data packet includes sufficient available space for subsequent routing in an intermediate network, sending the original data packet without constructing, as taught by Opalka with Woodward, in a purpose of switching ATM packets without transforming the original packet protocol. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine Opalka and Woodward the invention as specified in this claim.

b) In Regarding to Claim 15: Woodward disclosed all aspects of this claim as set forth in the claim 9, and Woodward further disclosed receive a data packet (see Fig. 6 step 610); and determining if the data packet is a remnant packet (see Fig. 6: step 630).

Woodward did not clearly disclose when the data packet is not a remnant packet, sending the data packet without building a reconstructed data packet.

Opalka disclosed when the data packet is not a remnant packet, sending the data packet without building a reconstructed data packet (see abstract and Fig.4).

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At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such when the data packet is not a remnant packet, as taught by Opalka with Woodward, in a purpose of switching ATM packets without transforming the original packet protocol. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine Opalka and Woodward the invention as specified in this claim.

c) In Regarding to Claim 20: Woodward disclosed all aspects of this claim as set forth in the claim 17, except for wherein said fixed-length packet format is ATM, and the remnant data field comprises at least a portion of a VCI from the original data packet.

Woodward did not clearly disclose the remnant data field comprises at least a portion of a VCI from the original data packet. However, accordingly in Fig.2, there is a portion of header 122 of the ATM packet 120 (the original ATM packet) is inserted in the data field of the packet 140 (remnant packet); it is possible that this inserted portion can be a VCI because the VCI a component of an ATM header.

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such inserting the VCI from the original ATM cell in the data field of the remnant packet teaching in the instant claim with Woodward, in a purpose of identifying one of logical connections multiplexed on one logical path that is communicated between switching stations. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine the instant claim and Woodward the invention as specified in this claim.

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Opalka disclosed wherein said fixed-length packet format is ATM (see abstract, Fig.4 and col.2 lines 22-29).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such fixed-length packet format is ATM, as taught by Opalka with Woodward, in a purpose of switching ATM packets without transforming the original packet protocol. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine Opalka and Woodward the invention as specified in this claim.

d) In Regarding to Claim 21: Woodward disclosed all aspects of this claim as set forth in the claim 17, except for wherein the processor is operable to send the original data packet without first constructing a remnant packet when the original address field includes sufficient available space for subsequent routing in an intermediate network.

Opalka disclosed wherein the processor is operable to send the original data packet without first constructing a remnant packet when the original address field includes sufficient available space for subsequent routing in an intermediate network (see abstract and Fig.4).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such a processor is operable to send the original data packet without first constructing a remnant packet when the original address field includes sufficient available space for subsequent routing in an intermediate network, as taught by Opalka with Woodward, in a purpose of switching ATM packets without transforming the original packet protocol. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine Opalka and Woodward the invention as specified in this claim.

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⁻ Art Unit: 2661

e) In Regarding to Claim 27: Woodward disclosed all aspects of this claim as set forth in the claim 23, except for wherein the processor is further operable to send the received data packet without constructing a reconstruction data packet when the received data packet is not a remnant packet.

Opalka disclosed the processor is further operable to send the received data packet without constructing a reconstruction data packet when the received data packet is not a remnant packet (see abstract and Fig.4).

At the time of the invention, it would be obvious to a person of ordinary skill in the art to combine such a processor is further operable to send the received data packet without constructing a reconstruction data packet when the received data packet is not a remnant packet, as taught by Opalka with Woodward, in a purpose of switching ATM packets without transforming the original packet protocol. The motivation for doing so would have been to route packets faster. Therefore, it would have been obvious to combine Opalka and Woodward the invention as specified in this claim.

Allowable Subject Matter

13. Claims 13 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

⁻ Art Unit: 2661

Examiner Information

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony T Ton whose telephone number is 703-305-8956. The examiner can normally be reached on M-F: 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas W Olms can be reached on 703-305-4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Alluria Sam